



# Data Taking Statistics

## Week of 2003 May 23-29

Day	Date	Del	Normalizable Luminosity (nb <sup>-1</sup> )			Hours			Norm. Events (k)		Efficiency	
			Util	Rec	Physics	Store	Util	Rec	Rec	Physics	Rec	Phys
Fri	23-May-03	541.19	532.18	477.27	477.27	11.3	11.1	10.3	1295	1295	0.882	0.882
Sat	24-May-03	1159.28	1151.26	1074.82	1074.82	17.2	17.0	16.7	2138	2138	0.927	0.927
Sun	25-May-03	1026.36	1017.73	946.74	946.74	15.8	15.6	15.3	2172	2172	0.922	0.922
Mon	26-May-03	899.86	871.44	816.98	816.98	13.6	13.1	12.9	1644	1644	0.908	0.908
Tue	27-May-03	189.33	185.63	176.61	176.61	4.9	4.8	4.8	552	552	0.933	0.933
Wed	28-May-03	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0	0	0.000	0.000
Thu	29-May-03	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0	0	0.000	0.000
		3816.0	3758.2	3492.4	3492.4	62.8	61.6	60.0	7801	7801	0.915	0.915

	Recorded Physics Lumi	Efficiency	Physics Events (million)
<b>This Week</b>	<b>3.5 pb<sup>-1</sup></b>	<b>91.5%</b>	<b>7.8</b>
<b>Last Week</b>	<b>4.3 pb<sup>-1</sup></b>	<b>90.6%</b>	<b>8.4</b>
<b>Best Week</b> (2003 May 02-08)	<b>8.6 pb<sup>-1</sup></b>	<b>87.9%</b>	<b>15.5</b>



# Delivered Luminosity Losses

## Major Sources of Downtime & Deadtime (>0.15 hrs)

Date	Time	Downtime (hrs)	Deadtime (hrs)	Reason
23-May-03	16:38	0.05	0.18	SMT LV Fatal Alarm
23-May-03	17:27	0.00	0.42	Alarm Watcher Bug
24-May-03	20:13	0.00	0.25	CFT Operator Error
25-May-03	13:08	0.10	0.10	Muon PDT 22
26-May-03	18:39	0.37	0.00	v12 Trigger Test

**CFT/CTT Run Pauses:** Mainly on Sunday and Monday. Crates required full downloads. Interruptions of 5-6 minutes three times.

**Combined Test Stand Operations:** Frequent starts and stops cause COOR disables of 10-15 seconds each.

**Most physics run transitions are 30-60 seconds - depending whether a prescale change is needed.**

**Store transitions take 3-5 minute.**



# Past Week of Stores

- **04:56 - 27 May 2003** End of Store 2614 - terminated by Tevatron.
- **10:24 - 26 May 2003** Store 2614 - D0 Luminosity = 29.11E30.
- **16:01 - 25 May 2003** End of Store 2606 - terminated by Tevatron.
- **00:11 - 25 May 2003** Store 2606 - D0 Luminosity = 30.37E30.
- **21:59 - 24 May 2003** End of Store 2604 - terminated by Tevatron.
- **04:48 - 24 May 2003** Store 2604 - D0 Luminosity = 33.08E30.
- **23:57 - 23 May 2003** End of Store 2600 - terminated by Tevatron.
- **12:41 - 23 May 2003** Store 2600 - D0 Luminosity = 18.20E30. Tevatron declared HEP at 12:27, but we requested they resrape to get pbar losses down to <5 kHz from 16 kHz.

There was no All Experimenters' Mtg on Monday (May 26) - so I did not get first hand explanation of why the accelerator could not get back to the 4E31 stores.

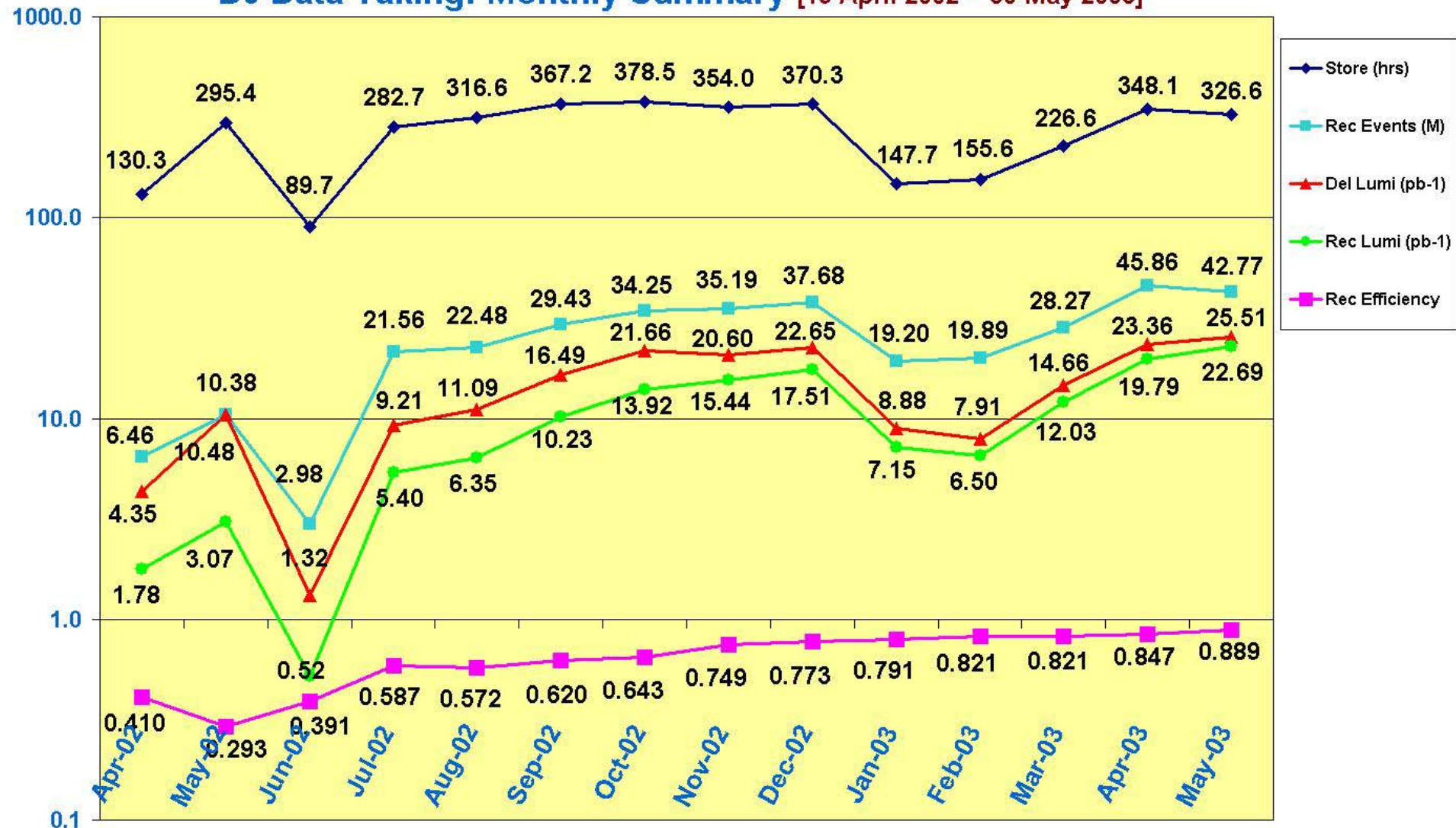
Power pole repairs began after power outage Tue (May 27) morning. It would be extremely optimistic to expect another store before Saturday Eve/Sunday Owl



# Next Week

- ??? - Wait for email updates from Dmitri, as the power pole repair is not exactly on schedule
- Will provide an outline of the June schedule next Friday
  - Dmitri and my travel plans
  - Who will be around during the Beaune workshop
  - Other details
- Any reasonable changes, tests, special runs, etc. should be approved and scheduled between now and June 11th while everyone is around
  - From Thur June 12 through Tues June 24, we are instituting a "No Changes" policy to:
    - Detector, Trigger, DAQ, Online Hardware/Software, etc.
  - Only activities to repair failures affecting data taking will be approved
    - Power supplies, Electronics cards, etc.
- As it is extremely unlikely we will get beam before Sunday...

# D0 Data Taking: Monthly Summary [19 April 2002 - 30 May 2003]



## D0 vs CDF Monthly Data Taking Efficiency

9 February 2002 - 30 May 2003

